

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A laundry machine comprising:
a steam generator for generating steam;
a circulation pump for pumping circulation water discharged from a tub of the laundry machine and re-supplying it into a drum of the laundry machine;
a spray nozzle for spraying steam generated from the steam generator and the circulation water pumped from the circulation pump into the drum; and
a back-current preventing branch unit connected to the steam generator by a steam supply line, ~~connected and~~ to the circulation pump by a circulation line, respectively, and connected to the spray nozzle, so as to prevent circulation water supplied to the spray nozzle from flowing back to the steam supply line or steam supplied to the spray nozzle from flowing back to the circulation line.

2. (Previously Presented) The laundry machine of claim 1, wherein the back-current preventing branch unit comprises:
a steam supply unit connected to the steam supply line and receiving steam;
a circulation water supply unit connected to the circulation line and receiving circulation water;
a nozzle connection unit communicating with the steam supply unit and the circulation water supply unit so as to be connected to the spray nozzle; and
a back-current preventing plate for preventing the circulation water from flowing into the steam supply unit, and for preventing the steam from flowing into the circulation water supply unit.

3. (Previously Presented) The laundry machine of claim 2, wherein the back-current preventing plate is rotatably mounted by a hinge pin at a position where the steam supply unit and the circulation water supply unit meet, and is operated by a pressure of steam and circulation water.

4. (Previously Presented) The laundry machine of claim 2, wherein a tightly-attaching protrusion is formed at an inner circumferential surface of the steam supply unit and at an inner circumferential surface of the circulation water supply unit, to which the back-current preventing plate is attached to maintain air-tightness.

5. (Previously Presented) The laundry machine of claim 2, wherein the spray nozzle comprises:

- a flange unit engaged with the nozzle connection unit;
- a nozzle unit formed at a lower side of the flange unit and spraying circulation water or steam into the drum; and
- a guide unit formed at one side of the nozzle unit and guiding circulation water or steam to be evenly sprayed into the drum from the nozzle unit.

6. (Previously Presented) The laundry machine of claim 5, wherein the horizontal spray angle ($\theta 1$) of the spray nozzle is greater than 90° but smaller than 100° ($90^\circ < \theta 1 < 100^\circ$).

7. (Previously Presented) The laundry machine of claim 5, wherein the vertical spray angle ($\theta 2$) of the spray nozzle is greater than 35° but smaller than 40° ($35^\circ < \theta 2 < 40^\circ$).

8. (Previously Presented-Withdrawn) The laundry machine of claim 1, wherein the back-current preventing branch unit comprises:

- a steam supply unit connected to the steam supply line and receiving steam;
- a circulation water supply unit connected to the circulation line and receiving circulation water;
- a nozzle connection unit communicating with the steam supply unit and the circulation water supply unit so as to be connected to the spray nozzle; and

a partition wall formed in a longitudinal direction at the center of the nozzle connection unit and partitioning a steam supply passage and a circulation water supply passage to prevent steam or circulation water from flowing backward.

9. (Previously Presented - Withdrawn) The laundry machine of claim 1, wherein the back-current preventing branch unit comprises:

a first supply unit connected to one of the steam supply line and the circulation line and supplying steam or circulation water directly to the spray nozzle; and

a second supply unit branched at a predetermined angle from one side of the first supply unit and supplying the other remaining one to the spray nozzle.

10. (Previously Presented - Withdrawn) The laundry machine of claim 9, wherein the second supply unit and the first supply unit make an angle (θ) of smaller than 30° therebetween.

11. (Currently Amended) A laundry machine comprising:

a steam generator for generating steam;

a circulation pump for pumping circulation water discharged from a tub of the laundry machine and re-supplying the circulation water into a drum of the laundry machine; and

a spray device connected to the steam generator by a steam supply ~~unit~~-line and to a circulation pump by a circulation line, respectively, so as to spray steam or circulation water into the drum,

wherein the spray device comprises:

a main body connected to the steam supply line and the circulation line;

a spray unit formed at an end portion of the main body and spraying steam or circulation water into the drum;

a steam passage formed inside the main body and supplying steam introduced through the steam supply line to the spray unit; and

a circulation water passage formed inside the main body and supplying circulation water introduced through the circulation line to the spray unit.

12. (Previously Presented) The laundry machine of claim 11, wherein the main body comprises:

- a steam supply unit connected to the steam supply line and provided with steam;
- a circulation water supply unit connected to the circulation line so as to receive circulation water; and
- a connection unit communicating with the steam supply unit and the circulation water supply unit, and having the spray unit mounted at its end portion.

13. (Previously Presented - Withdrawn) The laundry machine of claim 12, wherein the steam passage is formed by a steam pipe mounted at an inner circumferential surface of the steam supply unit of the main body and connected to the spray unit after passing the connection unit, and the circulation water passage is formed by a circulation water pipe mounted at an inner circumferential surface of the circulation water supply unit of the main body and connected to the spray unit after passing an inner circumferential surface of the steam pipe.

14. (Previously Presented - Withdrawn) The laundry machine of claim 12, wherein an inner diameter of the steam pipe is greater than an outer diameter of the circulation water pipe disposed at the connection unit.

15. (Previously Presented - Withdrawn) The laundry machine of claim 12, wherein the spray unit comprises:

- a plate fixed at an end portion of the connection unit of the main body, to which end portions of the steam pipe and the circulation water pipe are fixed;
- circulation water spray holes formed at the center of the plate and spraying circulation water supplied through the circulation water passage; and
- steam spray holes formed in an outer circumferential direction of the plate and spraying steam supplied in the steam passage.

16. (Previously Presented - Withdrawn) The laundry machine of claim 15, wherein a guide panel is formed at an end portion of the connection unit in order to guide circulation water or steam sprayed from the circulation water spray holes and the steam spray holes to be introduced into the drum.

17. (Previously Presented - Withdrawn) The laundry machine of claim 12, wherein the steam passage is formed by a steam pipe mounted at the inner circumferential surface of the steam supply unit of the main body and connected to the spray unit after passing the connection unit, and the circulation water passage is formed by a circulation water pipe mounted at the inner circumferential surface of the circulation water supply unit of the main body and connected to the spray unit after passing the connection unit, like the steam passage.

18. (Previously Presented - Withdrawn) The laundry machine of claim 17, wherein the spray unit comprises:

a steam spray hole formed at one side of the connection unit and spraying steam supplied to the steam passage; and

a circulation water spray hole formed at the other side of the connection unit and spraying circulation water supplied to the circulation water passage.

19. (Currently Amended) A laundry machine comprising:
a steam generator for generating steam;
a circulation pump for pumping circulation water discharged from a tub of the laundry machine and re-supplying it into a drum of the laundry machine;
a single spray nozzle for spraying steam generated from the steam generator and the circulation water pumped from the circulation pump into the drum; and
a back-current preventing branch unit connected to the steam generator by a steam supply line, ~~connected and~~ to the circulation pump by a circulation line, respectively, and connected to the single spray nozzle, so as to prevent circulation water supplied to the spray nozzle from

flowing back to the steam supply line or steam supplied to the spray nozzle from flowing back to the circulation line.

20. (Currently Amended) The laundry machine of claim 1, wherein the back-current preventing branch unit is a unitary structure having a first branch connected to the steam generator by a the steam supply line, a second branch connected to the circulation pump by a the circulation line, and a third branch connected to the spray nozzle, so as to prevent circulation water supplied to the spray nozzle from flowing back via the first input branch to the steam supply line or steam supplied to the spray nozzle from flowing back via the second input branch to the circulation line.